

6. Find three consecutive integers such that the sum of twice the smallest and 3 times the largest is 126.

7. Seven times a number is equal to 12 more than 3 times the number. Find the number.

8. Ten more than 6 times a number is 4 less than 4 times the number.

9. The second of two numbers is 4 times the first. Their sum is 50. Find the numbers.

10. The second of two numbers is 5 more than twice the first. Their sum is 80. Find the numbers.

11. The perimeter of a rectangle is 24 inches. Find the dimensions if its length is 3 inches greater than its width.

12. Find the measures of the angles of a triangle if the angles are represented by x , $4x$, and $4x$.

13. The perimeter of a triangle is 51 centimeters. The lengths of its sides are consecutive odd integers. Find the lengths of all three sides.

14. Two-thirds times a number plus 7 equals 7 minus the number. Find the number.